PATENT COOPERATION TRE

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TY REC'D	10	AUG	2000	
WIPC)		PCT	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2362-101.PCT FOR FURTHER ACTION See Notification of Preliminary Examinat			ication of Tran Examination Rep	smittal of International ort (Form PCT/IPEA/416)	
International application No.	International filing date (day/n	onth/year)	Priority date (d	ay/month/year)	
PCT/US99/05453	12 MARCH 1999		01 APRIL 19	98	
International Patent Classification (IPC) IPC(7): C01F 11/18 and US Cl.: 4	or national classification and IP 22/168; 423/155, 164, 165, 166	C 5, 178			
Applicant CHALMERS, FRANKLIN S.					
Examining Authority and is 2. This REPORT consists of a This report is also accommodated to the second se	ary examination report has transmitted to the applicant at total of sheets. spanied by ANNEXES, i.e., sheet basis for this report and/or she	ets of the desc	Article 36.	nd/or drawings which have	
(see Rule 70.16 and Sec These annexes consist of a to	tion 607 of the Administrative	Instructions	ınder the PCT).	•	
3. This report contains indication		ems.			
I X Basis of the report II Priority III Non-establishment of report with regard to novelty, inventive step or industrial applicability IV Lack of unity of invention V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII X Certain observations on the international application					
Date of submission of the demand	Date	of completion	on of this report		
13 SEPTEMBER 1999	:	31 MAY 200)		
Name and mailing address of the IPEA Commissioner of Patents and Trade Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	marks	orized office STEVE GRIF phone No.		DEBORAH THOMAS PARALEGAL SPECIALIST	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/05453

I. B	asis of the report		
1. Witl	n regard to the elements of the inte	emational application:*	
x	the international application		
	the description:		
х	pages1-41		as originally filed
	pages NONE		
		, filed with the letter of	
	the claims:		
	pages 42-48		, as originally filed
	= =	, as amended (together with any	
		, filed with the letter of	, filed with the demand
X	the drawings:		
	pages1-7		, as originally filed
	pagesNONE	, filed with the letter of	
		• • •	
X	the sequence listing part of the	-	
			, as originally filed
	pages NONE	, filed with the letter of	, filed with the demand
	pages	, thed with the letter of	
	the language of publication o	furnished for the purposes of international search of the international application (under Rule 48.3(b) turnished for the purposes of international preliminary ex).
	th regard to any nucleotide and	for amino acid sequence disclosed in the internation ed out on the basis of the sequence listing:	al application, the international
	contained in the international	application in printed form.	
	filed together with the interna	ational application in computer readable form.	
一同	furnished subsequently to this	s Authority in written form.	
一	furnished subsequently to this	s Authority in computer readable form.	
	The statement that the subsequinternational application as file	nently furnished written sequence listing does not goed has been furnished.	beyond the disclosure in the
	The statement that the informatic been furnished.	on recorded in computer readable form is identical to the	he writen sequence listing has
4. X	The amendments have resulte	ed in the cancellation of:	
''-	X the description, pages_	NONE	
	x the claims, Nos.	NONE	
	X the drawings, sheets/fi		
		8	
5		(some of) the amendments had not been made, since the	ey have been considered to go
in th	lacement sheets which have been fu	as indicated in the Supplemental Box (Rule 70.2(c)).** urnished to the receiving Office in response to an invitation and are not annexed to this report since they do not con	under Article 14 are referred to ntain amendments (Rules 70.16
**Any	replacement sheet containing su	ich amendments must be referred to under item 1 and	annexed to this report.

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V. Reasoned statement under Article 3: citations and explanations supportin	5(2) with reg	ard to novelty, inventive step or industrial applica	bility;
1. statement		-	
Novelty (N)	Claims	1-25	YES
	Claims	NONE	_ NO
Inventive Step (IS)	Claims	1-17 and 20-25	YES
	Claims	_18 and 19	_ NO
Industrial Applicability (IA)	ar :		
massial Applicatinty (IA)	Claims Claims	1-25 NONE	_ YES
			_ NO
sulfur bearing pollutants and a sulfide solution not teaching a calcium containing material, he and are thus prima-facie chemically equivalen It is noted that the intended use of an appar various zones of the apparatus with equal effe	having a solution. Also present observer this an ott. ratus does not licetiveness to acle		fers in group e
		d (4), because the prior art does not teach the claimed pro	
Claims 1-17 and 20-25 meet the criteria set ou the claimed process steps and additional pipes	t in PCT Articl of claims 20 ar	le 33(3), because the prior art does not teach or fairly sugged	gest

NONE

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VIII. (Certain	observations	on t	the	international	ap	plication
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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claim 19 is objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because the claim is indefinite for the following reason(s): it should depend from apparatus claim 18.